

Figure 1

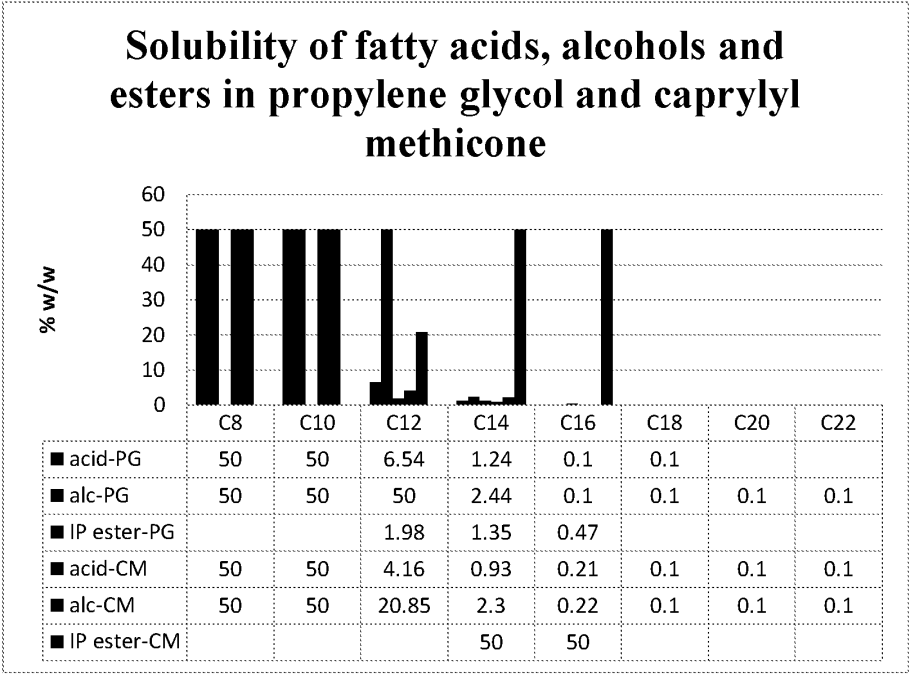
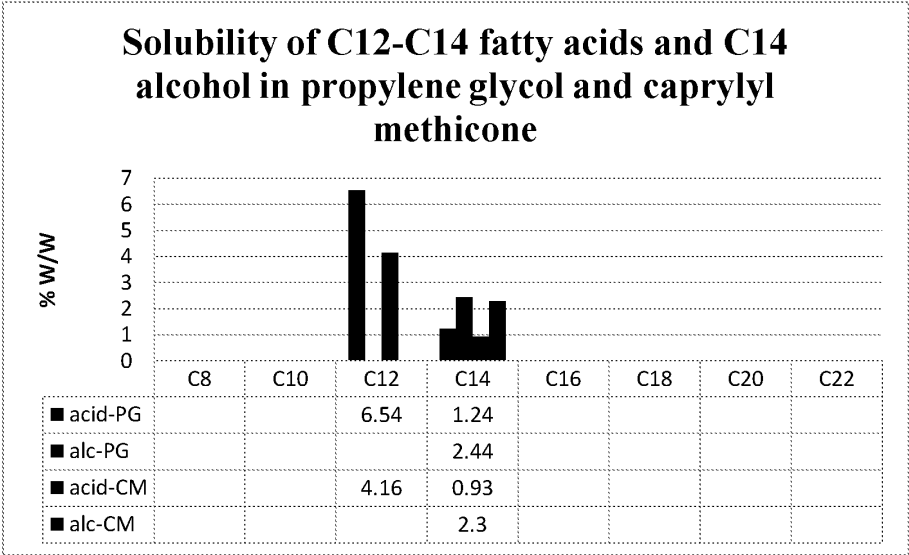


Figure 2



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Figure 3

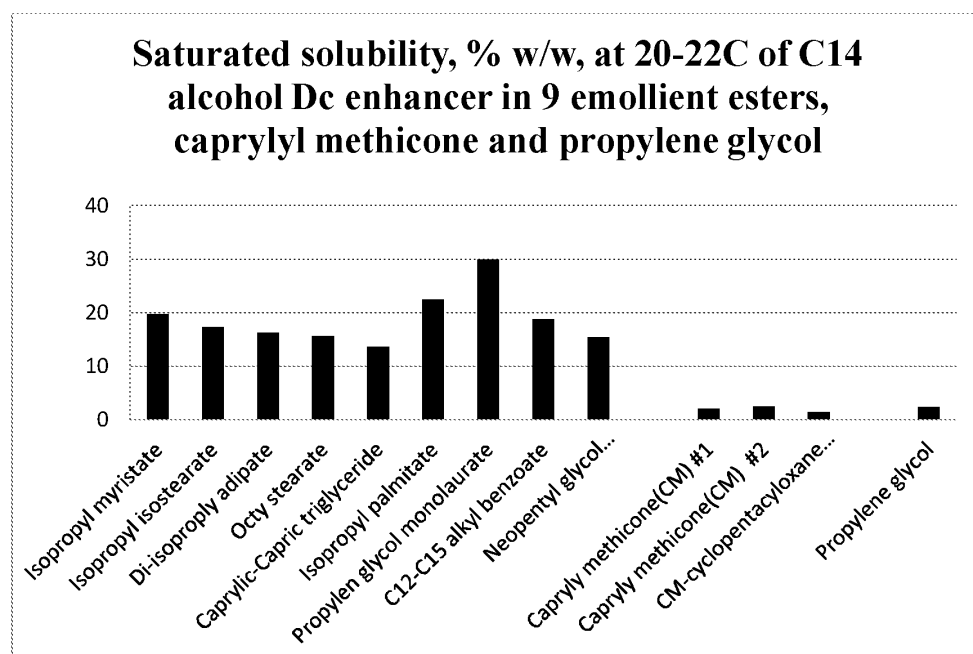
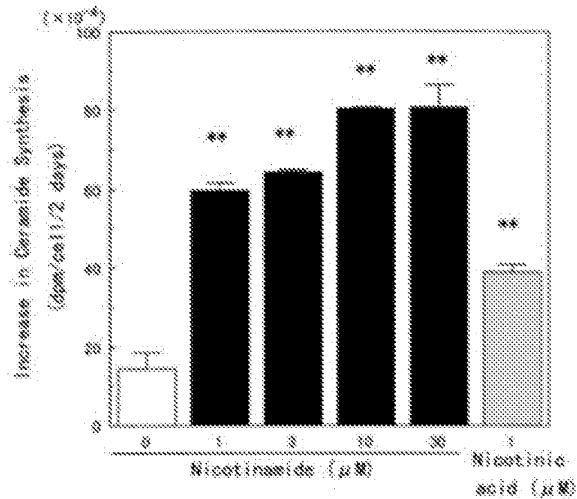


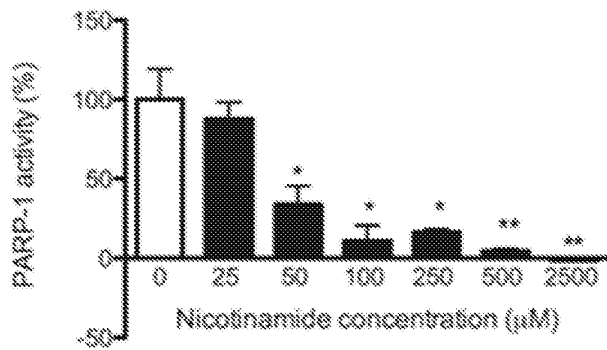
Figure 4

Figure 4a



Nicotinamide increases ceramide synthesis dose-dependently. Nicotinamide (1–30 $\mu\text{mol L}^{-1}$) or nicotinic acid (1 $\mu\text{mol L}^{-1}$) was added to the culture for 6 days. Ceramide synthesis was measured by incorporation of [¹⁴C]-serine into ceramide for 2 days (see Materials and methods). Mean $\pm$ SEM; $n = 3$; ** $P < 0.01$, Dunnett's multiple comparison; dpm, disintegrations per min.

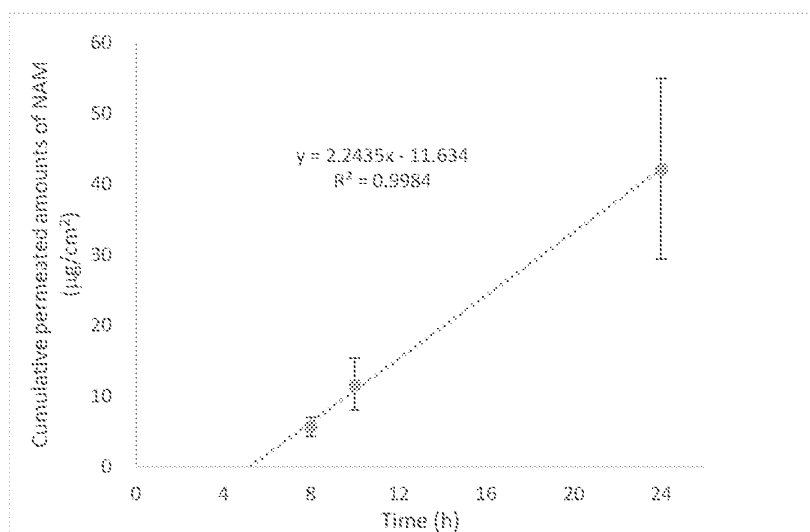
Figure 4b



Nicotinamide dose-responsively inhibits poly-ADP-ribose polymerase (PARP)-1 activity. Nicotinamide at concentrations $\geq 50 \mu\text{M}$ inhibited PARP-1, assessed with a chemiluminescent activity assay ($n = 8$ for positive control; $n = 12, 12, 4, 6, 5$ and 6 for nicotinamide at concentrations from 25 to 2500 μM , respectively; * $P < 0.01$; ** $P < 0.001$; one-way ANOVA compared with control).

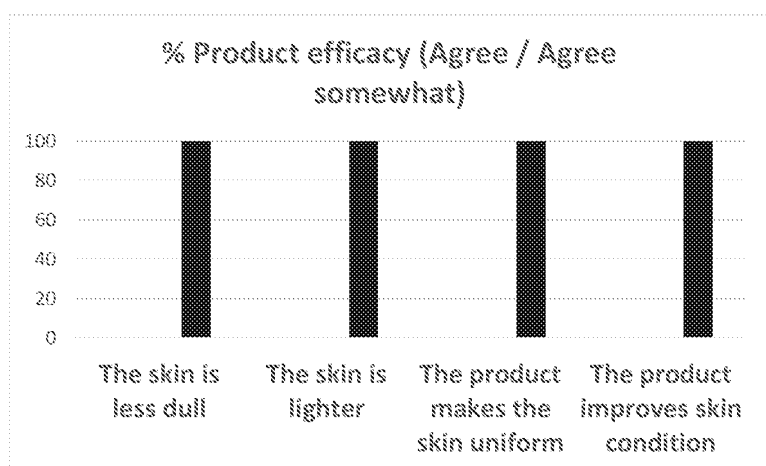
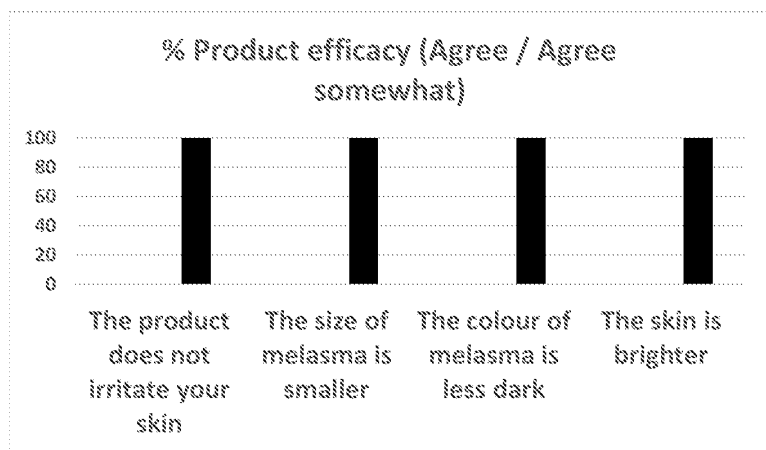
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Figure 5



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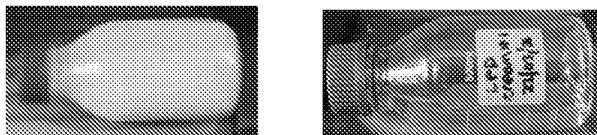
Figure 6



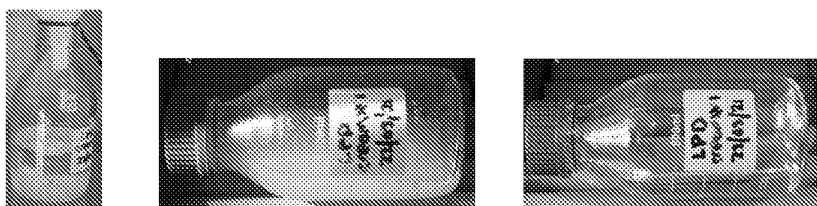
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Figure 7

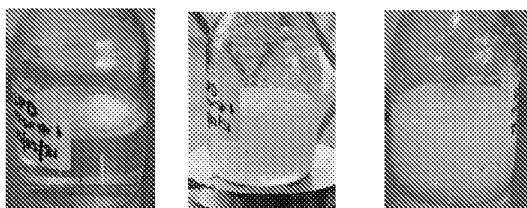
Figures 7.1a and 7.1b:



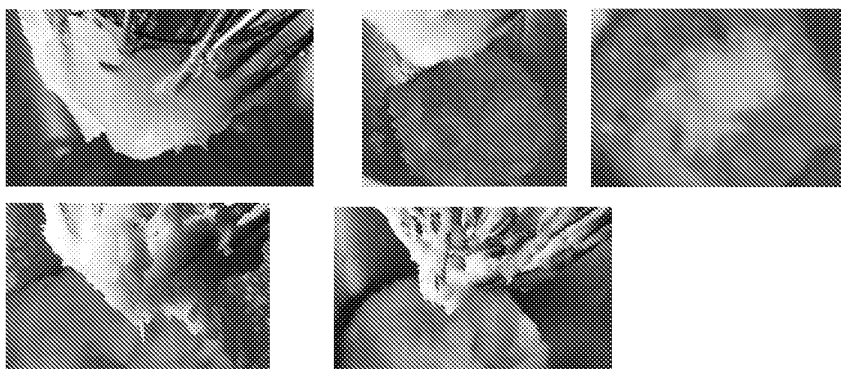
Figures 7.2a, 7.2b and 7.2c:



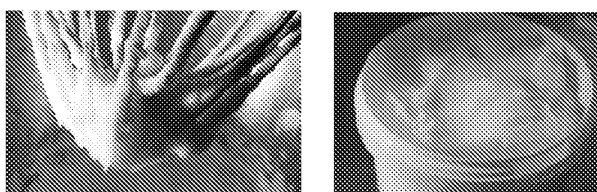
Figures 7.3a, 7.3b and 7.3c:



Figures 7.4a, 7.4b, 7.4c, 7.4d and 7.4e:



Figures 7.5a and 7.5b:



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Figure 8

Figure 8a:

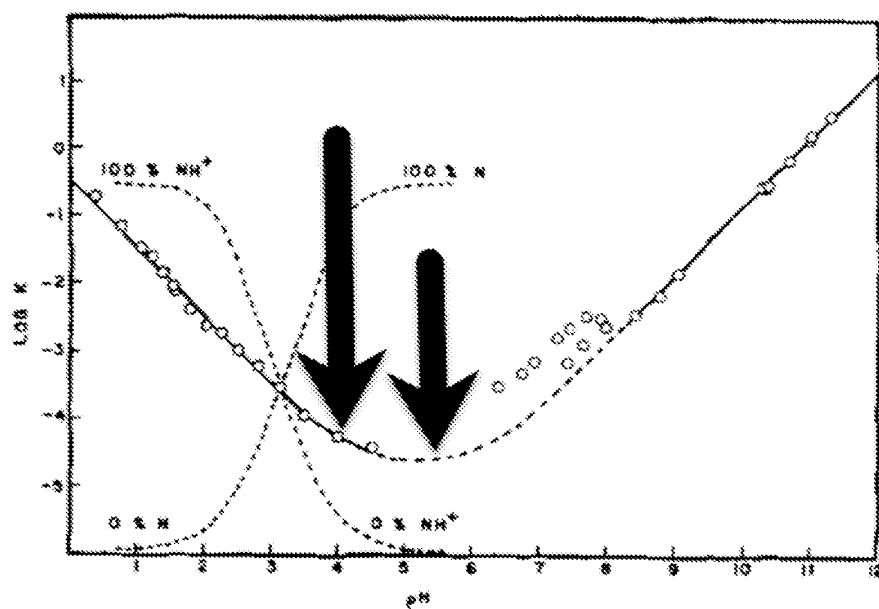
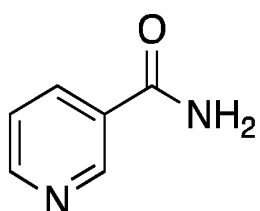


Figure 8b:

